

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.  
TH1647 04 (US)APPLICATION NUMBER  
10/679,126LIST OF INFORMATION PROVIDED  
BY APPLICANT

(Use several sheets if necessary)

APPLICANT  
C. L. Edwards et al.FILING DATE  
October 3, 2003GROUP ART UNIT  
1621

MAY 17 2004

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
JP	AA	3,875,202	4/1/75	Steckler	260	458	
JP	AB	4,814,514	3/21/89	Yokota et al.	568	608	
JP	AC	4,885,379	12/5/89	Abend	558	34	
JP	AD	2,816,932	12/17/57	Di Nardo et al.	260	615	
JP	AE	4,226,637	10/7/80	Linden et al.	106	308 Q	
JP	AF	6,100,433	8/8/00	Döbert et al.	568	678	
	AG						
	AH						
	AI						

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
JP	AL	JP 10237497	9/8/98	Japan (English Abstract)	C11D	7/54		X
	AM							
	AN							
	AO							

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

JP	AR	Piasecki, Andrzej, "Acetals and Ethers - XIII. Reaction Products of 2-Butenal With Ethylene Glycol," Tetrahedron (1984) 40(23), pp. 4893-6
JP	AS	Kuroda, Chiaki; Shimizu, Shigeru; Haishima, Takahiro; Satoh, James Y., "Synthesis of a Stereoisomer of Frullanolide Utilizing the Intramolecular Cyclization of $\omega$ -Formyl-2-Alkenylsilane," Bulletin of the Chemical Society of Japan (1993), 66(8), pp. 2298-303
	AT	

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8/21/2004

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Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date If Appropriate
		AA 3,676,523	7/11/72	Mason	260	683.15D	
		AB 3,686,351	8/22/72	Mason	260	683.15D	
		AC 3,737,475	6/5/73	Mason	260	683.15D	
		AD 3,825,615	7/23/74	Lutz	260	683.15D	
		AE 4,020,121	4/26/77	Kister et al.	260	683.15D	
		AF 4,021,447	5/3/77	Rubin et al.	260	326.8	
		AG 3,702,886	11/14/72	Argauer et al.	423	328	
		AH 3,709,979	1/9/73	Chu	423	328	
		AI 3,832,449	8/27/74	Rubin et al.			

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation Yes N	
JP	AL	WO 94/05761	3/17/94	World	C11D	3/10		
JP	AM	1,429,143	3/24/76	Great Britain	C11D	10/02		
JP	AN	WO 99/42553	8/26/99	World	C11D	3/43		
JP	AO	0,884,298 A2	12/16/98	Europe	C07C	43/10	X	

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

JP	AR	Myers, Drew, "Surfactant Science and Technology," pp. 82-85, VCH Publishers, Inc. (New York, NY, USA) 1988 (ISBN 0-89573-399-0)
JP	AS	K. Shinoda, "Principles of Solution and Solubility," translation in collaboration with Paul Becher, published by Mercel Dekker, Inc. 1978, pp. 292-304
JP	AT	Reid, V.W., G.F. Longman and E. Heinerth, "Determination of Anionic-Active Detergents by Two-Phase Titration," <u>Tensile</u> 4, 1967, pp. 292-304.

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REFERENCE DESIGNATION		U.S. PATENT DOCUMENTS					
Examiner Initial		Document Number	Date	Patentee	Class	Subclass	Filing Date if Appropriate
already considered	BA	4,482,531	11/13/84	Kuehl	423	329	
	BB	3,950,496	4/13/76	Ciric	423	328	
	BC	3,972,983	8/3/76	Ciric	423	328	
	BD	4,046,859	9/6/77	Plank et al.	423	328	
	BE	4,247,416	1/27/81	Doherty et al.	252	428	
already considered	BF	4,086,186	4/25/78	Rubin et al.	252	430	
	BG	4,046,859	9/6/77	Plank et al.	423	328	
	BH	4,287,166	9/1/81	Dwyer et al.	423	325	
	BI	4,247,728	1/27/81	Rubin et al.	585	467	

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
JP	BL	06073045	3/15/94	Japan	C07D	273/08	X	
JP	BM	03261779	11/21/91	Japan	C07D	309/24	X	
JP	BN	JP 11-349507	12/21/99	Japan	C07C	43/11	X	
JP	BO	100 20 899 A1	10/25/01	Germany	C07D	493/04	X	

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

JP	BR	B. E. Gordon, H. Roddewig and W. T. Shebs, "A Double Label Radiotracer Approach to Detergency Studies," Journal of American Oil Chemists' Society, Vol. 44, No. 5 (1967) pp. 289-294
JP	BS	W. T. Shebs and B. E. Gordon, "Improvements in Detergency Precision With Radioactive Soil," Journal of American Oil Chemists' Society, Vol. 45, No. 5 (1968) pp. 377-380
JP	BT	W. T. Shebs, "Radioisotope Techniques in Detergency," Chapter 3, <u>Detergency Theory and Technology</u> , Marcel Dekker, Inc., New York (1987) pp. 125-191

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## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
	CA	4,495,303	1/22/85	Kuehl	502	62	
	CB	4,397,827	8/9/83	Chu	423	326	
	CC	4,640,829	2/3/87	Rubin	423	328	
	CD	4,568,654	2/4/86	Valyocsik	502	62	
	CE	4,698,217	10/6/87	Valyocsik	423	328C	
	CF	4,647,442	3/3/87	Derouane et al.	423	306	
	CG	4,619,818	10/28/86	Derogane et al.	423	306	
	CH	4,954,325	9/4/90	Rubin et al.	423	328	
	CI	5,236,575	8/17/93	Bennett et al.	208	46	

## FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Subclass	Translation Yes N
CL						
CM						
CN						
CO						

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

JP	CR	Roger Hunter et al., "Allylation Using Allylborates," TETRAHEDRON, Vol. 50, No. 3, 1994, pp. 871-888
JP	CS	Birgit Bartels et al., "A Selectivity of Activated Ketal Reduction With Borane Dimethyl Sulfide," JOURNAL OF ORGANIC CHEMISTRY, Vol. 58, No. 24, 1993, pp. 6756-6765
JP	CT	T. Hosokawa et al., "Palladium (II)-Catalyzed Acetalization of Terminal Olefins Bearing Electron-Withdrawing Substituents With Optically Active Diols," JOURNAL OF ORGANIC CHEMISTRY, Vol. 52, 1987, pp. 1958-1764

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Examiner Initial	Document Number	Date	Patentee	Class	Subclass	Filing Date If Appropriate
DA	3,308,069	3/7/67	Wadlinger et al.	252	455	
DB	Re. 28,341	2/18/75	Wadlinger, et al.	208	120	
DC	3,058,805	10/16/62	Weber	23	113	
DD	3,130,007	4/21/64	Breck	23	113	
DE	3,996,337	12/7/76	Stabenow et al.	423	328	
DF	4,440,871	4/3/84	Lok et al.	502	214	
DG	5,059,567	10/22/91	Linsten et al.	502	64	
DH	3,462,525	8/19/69	Levinsky	424	56	
DI	3,428,654	2/18/69	Rubinfeld et al.	260	327	

## FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation Yes	N
DL						
DM						
DN						
DO						

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

DR	F. Wang et al., Synlett, (1998) pp. 245-245
DS	A. A. Volkov et al., Dokl. Chem. 283, (1985), pp. 246-248
DT	International Search Report of 5 July 2002

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	EA	3,420,875	1/7/69	Di Salvo et al.	260	513	
	EB	3,506,580	4/14/70	Rubinfeld et al.	252	138	
	EC	3,579,537	5/18/71	Rubinfeld et al.	260	327	
	ED	3,524,864	8/18/70	Rubinfeld et al.	260	327	
	EE	5,057,627	10/15/91	Edwards	568	618	
	EF	6,087,311	7/11/00	Van Dijk	510	294	
	EG	6,083,893	7/4/00	Zint et al.	510	221	
	EH	6,159,920	12/12/00	Ridyard	510	324	
	EI	6,153,574	11/28/00	Janssen	510	224	

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	EL							
	EM							
	EN							
	EO							

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

JP	ER	Anionic Surfactants, Volume 7, Part I, edited by Warner M. Linfield, 1976 by Marcel Dekker, Inc.
	ES	
	ET	

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	FA	2,778,855	1/22/57	Shokal et al.	260	613	
	FB	4,503,275	3/5/85	Harris et al.	568	866	
	FC	4,317,938	3/2/82	Lutz	568	619	
	FD	4,721,816	1/26/88	Edwards	568	618	
	FE	4,721,817	1/26/88	Edwards	518	618	
	FF	2,808,442	10/1/57	Smith et al.	260	611	
	FG	5,912,408	6/15/99	Trinh et al.	8	142	
	FH	4,544,512	10/1985	Hozumi et al.	558	169	
	FI						

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	Document No.	Date	Country	Class	Subclass	Translation	
						Yes	No
	FL						
	FM						
	FN						
	FO						

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	FR	
	FS	
	FT	

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